

Appl. No. 10/522,698
Reply to Office Action of July 11, 2006

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Canceled).

Claim 2 (Currently Amended): ~~The wavelength conversion element according to Claim 1, which is characterized in that~~

A wavelength conversion element in which a plurality of polarization inversion regions are formed in a quartz crystal substrate in a periodic manner, and light that is incident from one end of the quartz crystal substrate is subjected to a wavelength conversion by being caused to pass through the plurality of polarization inversion regions, this wavelength conversion element being characterized in that a high-refractive-index region is formed so that this region passes through the

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plurality of polarization inversion regions in the direction of
light transmission, and wherein

the high-refractive-index region is formed by converting the
area around this region into a low-refractive-index region by
means of ion implantation.

Claims 3-5 (Canceled).